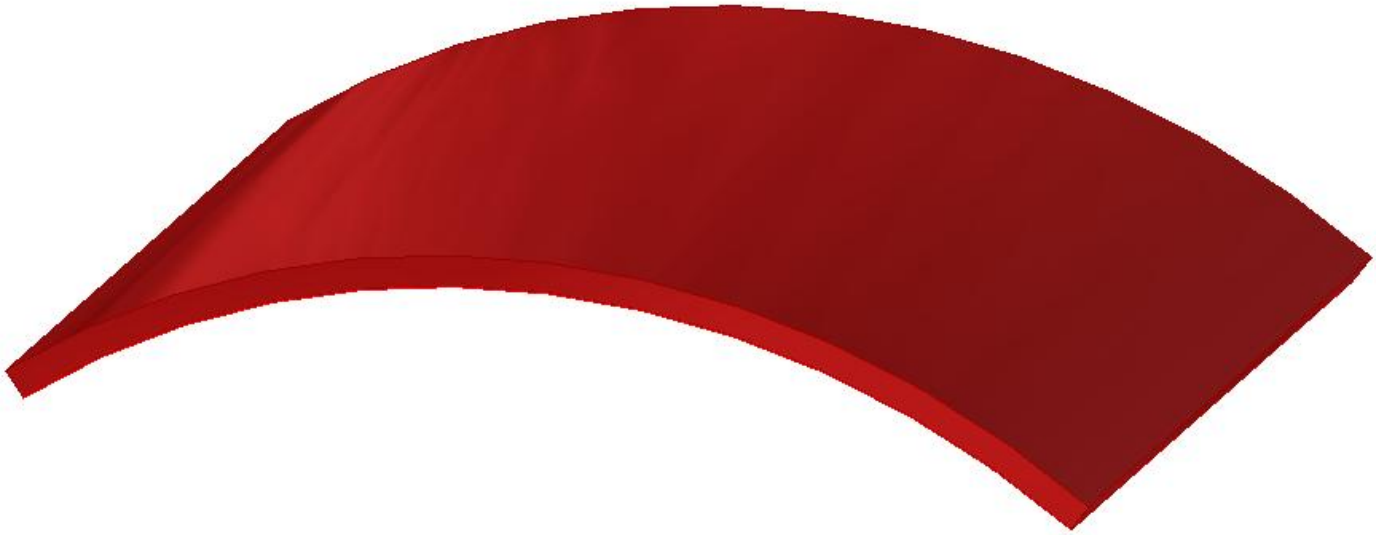
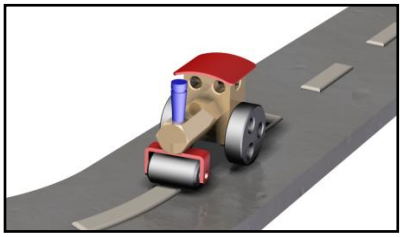
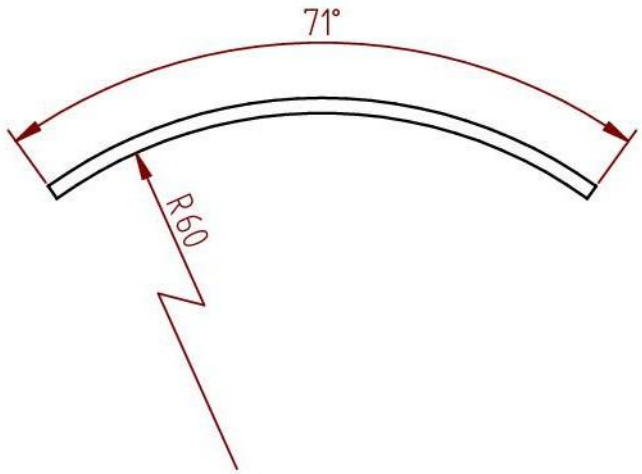
SOLID EDGE
VELOCITY SERIES

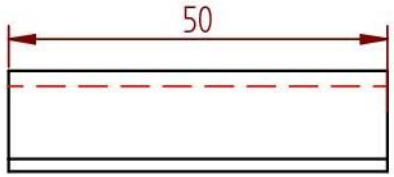


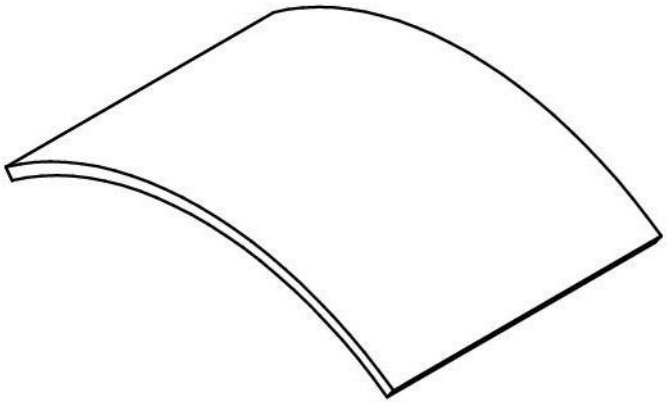
Tutorial: ***Roof***



Project: ***Roadroller (Synchronous)***

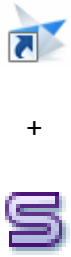
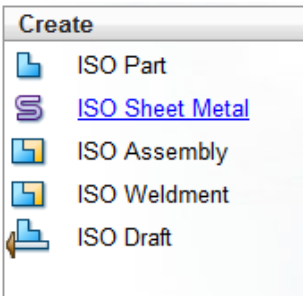
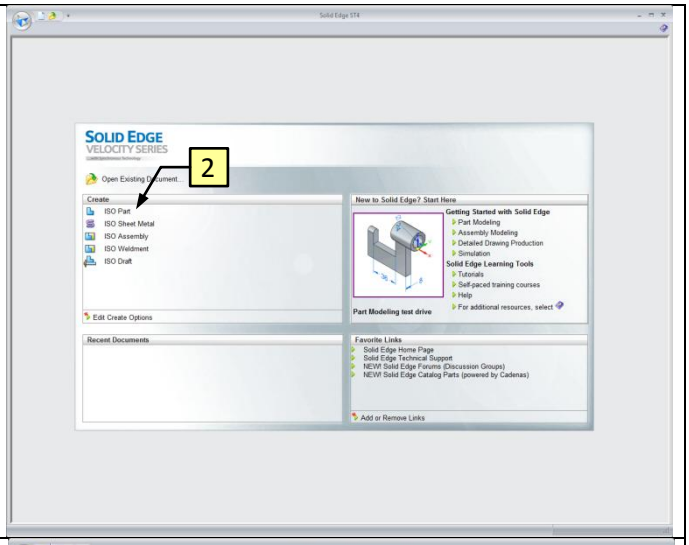
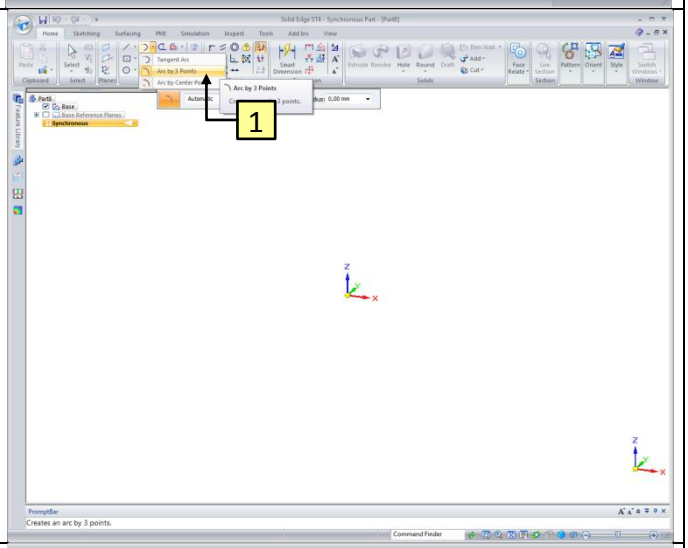
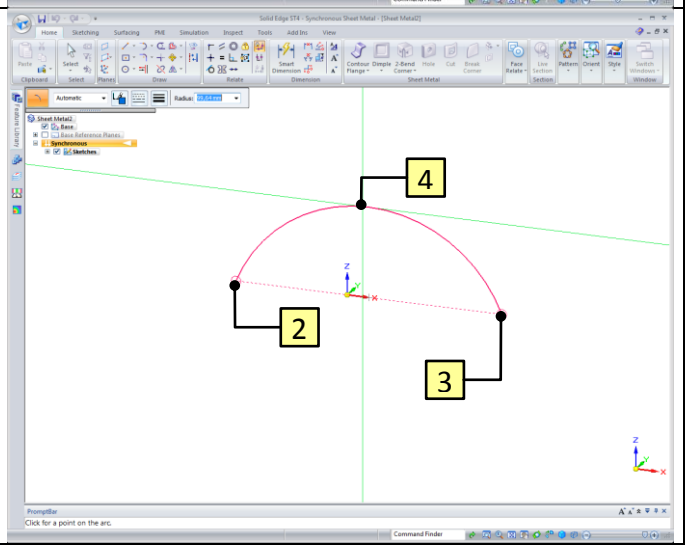


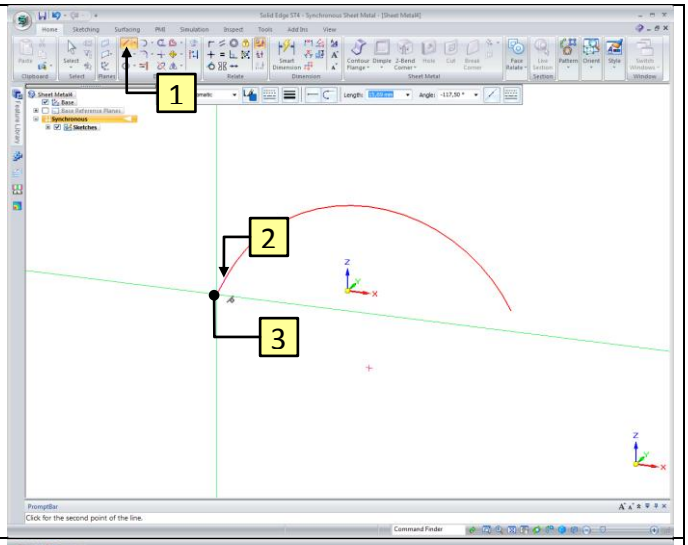
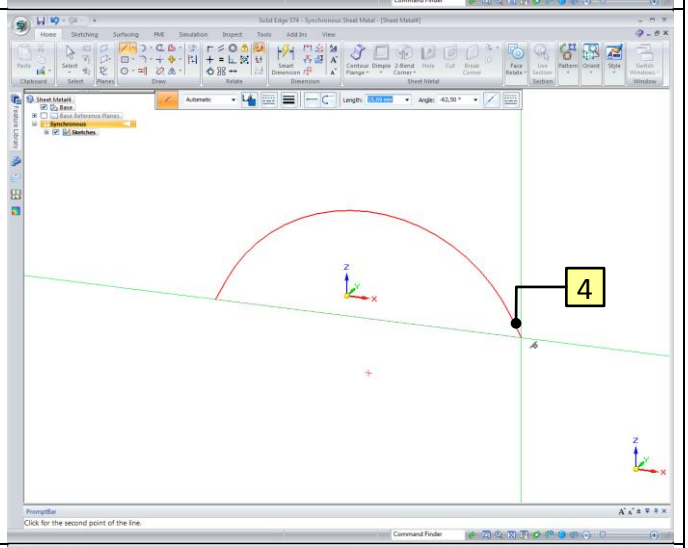
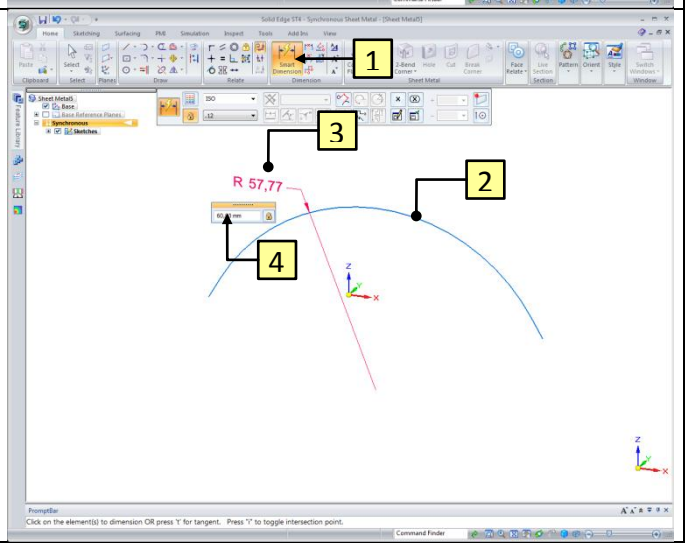


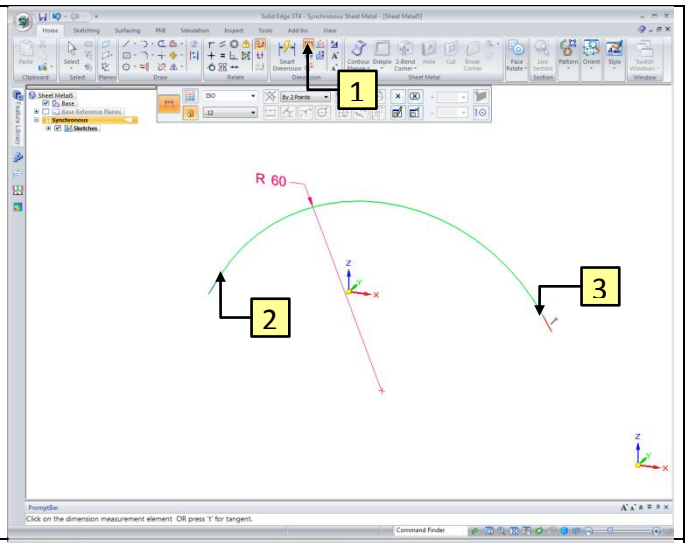
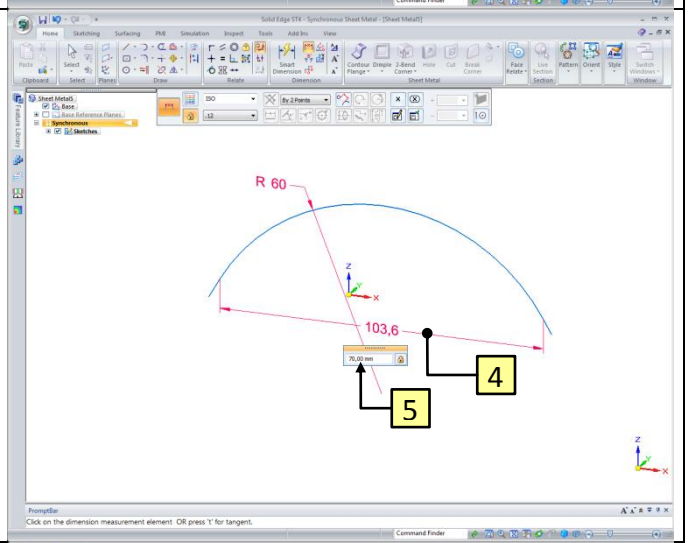
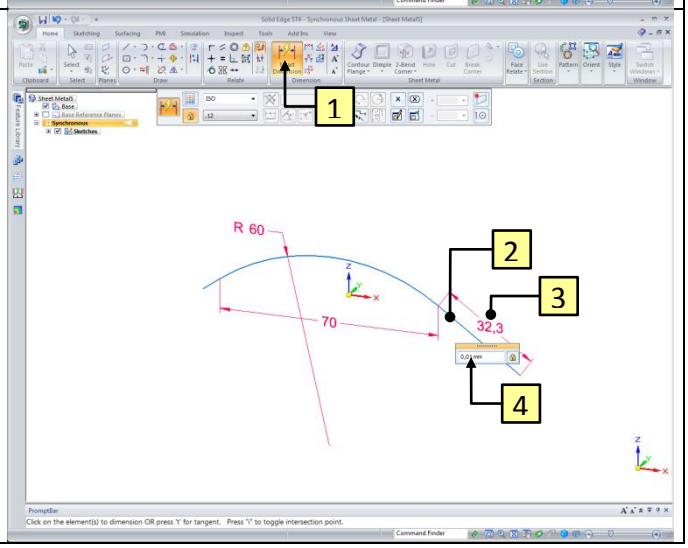


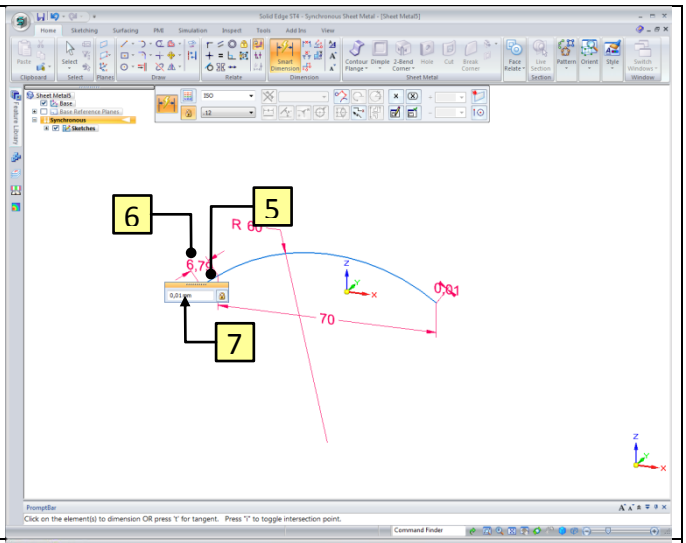
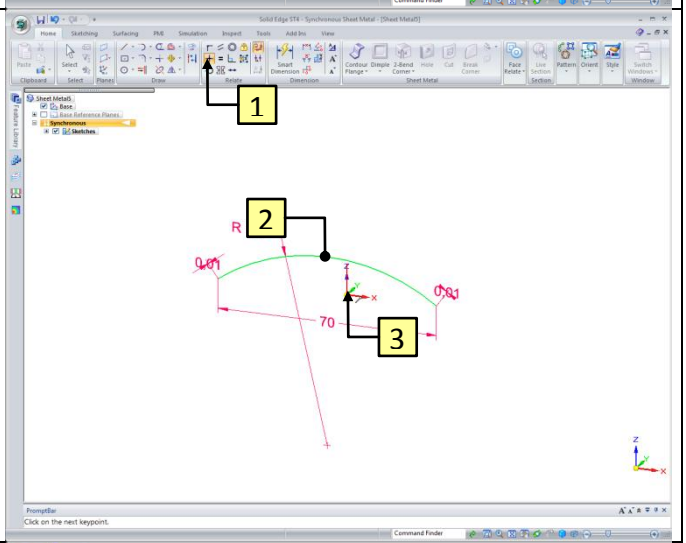
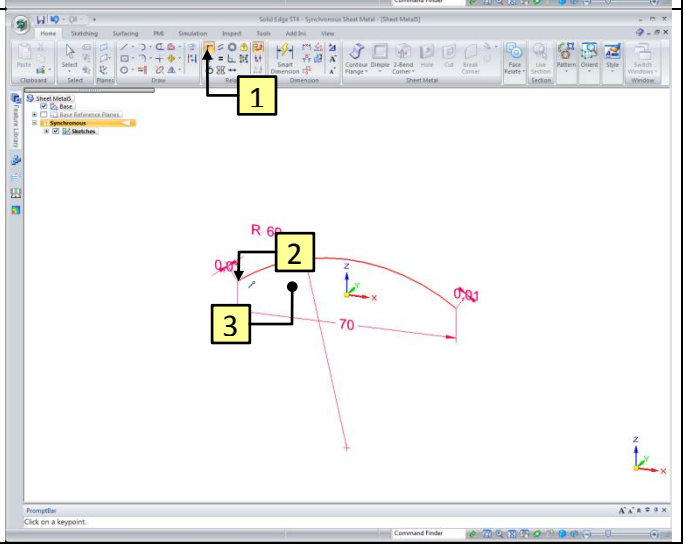
AMERICAN PROJECTION	SCALE : 2:1	AUTHOR : Ruben	CAAP Hamersveldseweg 65 3833 GL Leusden +31(0)33-4573322 www.caap.nl
	DIMENSION UNITS : MM	CLASS (DEPARTMENT) : -	
	DATE : 22-8-2011	CHECKED BY : -	

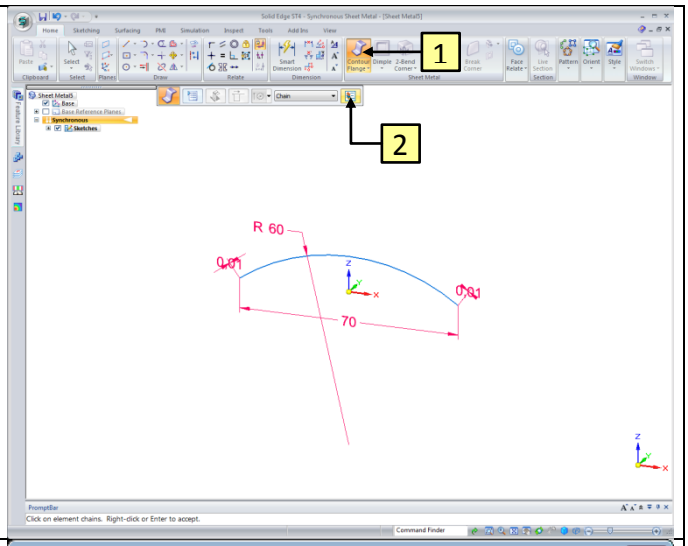
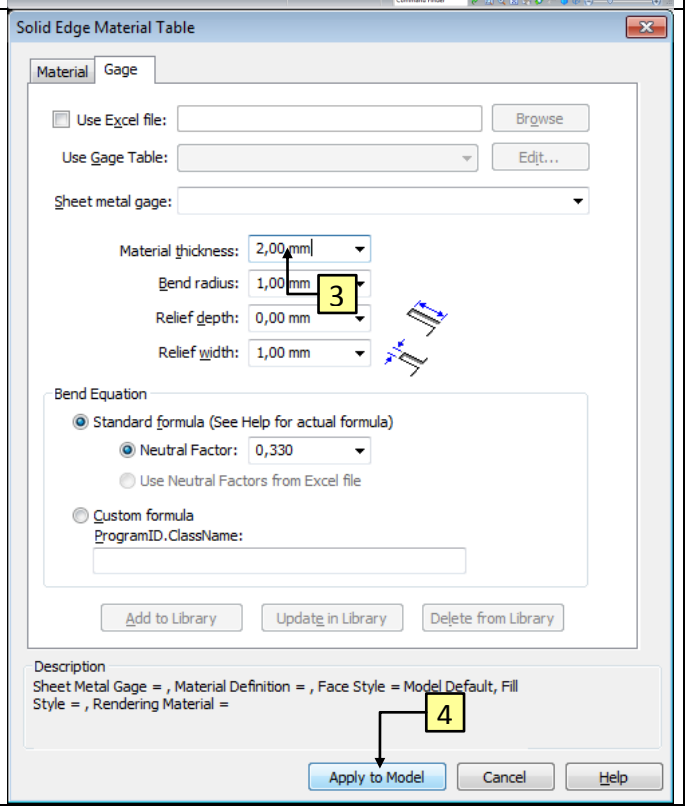
MATERIAL : Steel	TITEL :	NUMBER :	REV:	SIZE:
PROJECT: Roadroller	Roof	2002	A	A4

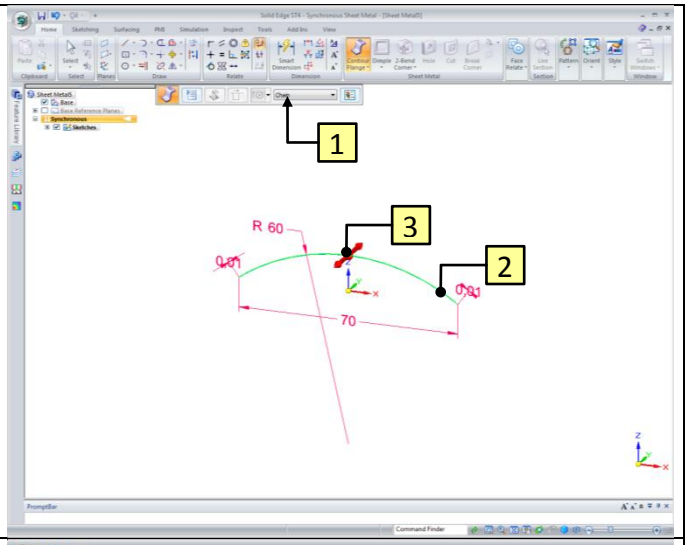
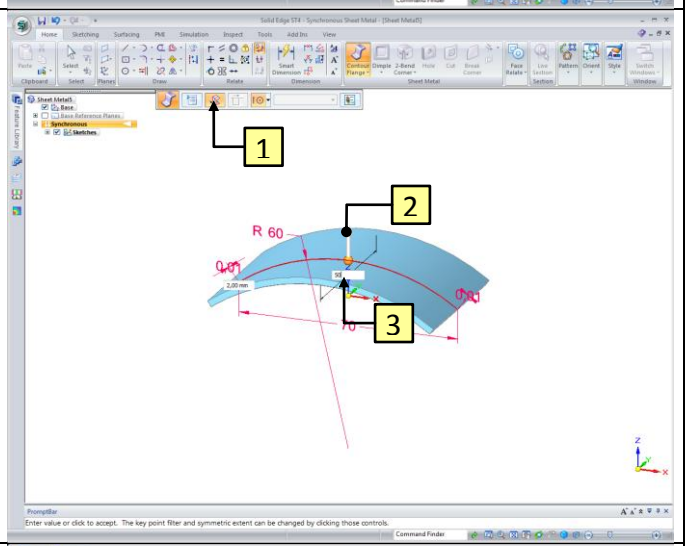
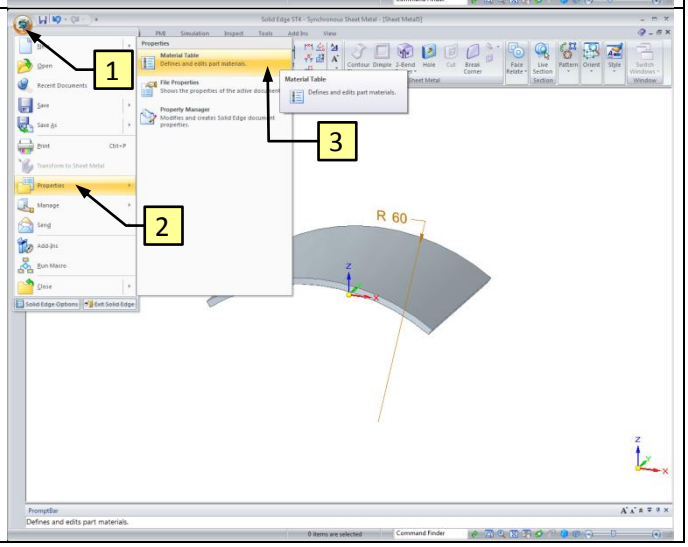
1 	1. Start **Solid Edge.** 2. Click on **<u>ISO Sheet Metal.</u>** 	
2	1. Click the **Arc by 3 Points** Button.	
3	2. Make sure the dotted line is horizontal to the Origin. Click for the first Arc point. 3. Make sure the dotted line is horizontal to the Origin. Click for the second Arc Point. 4. Click to place the Arc.	

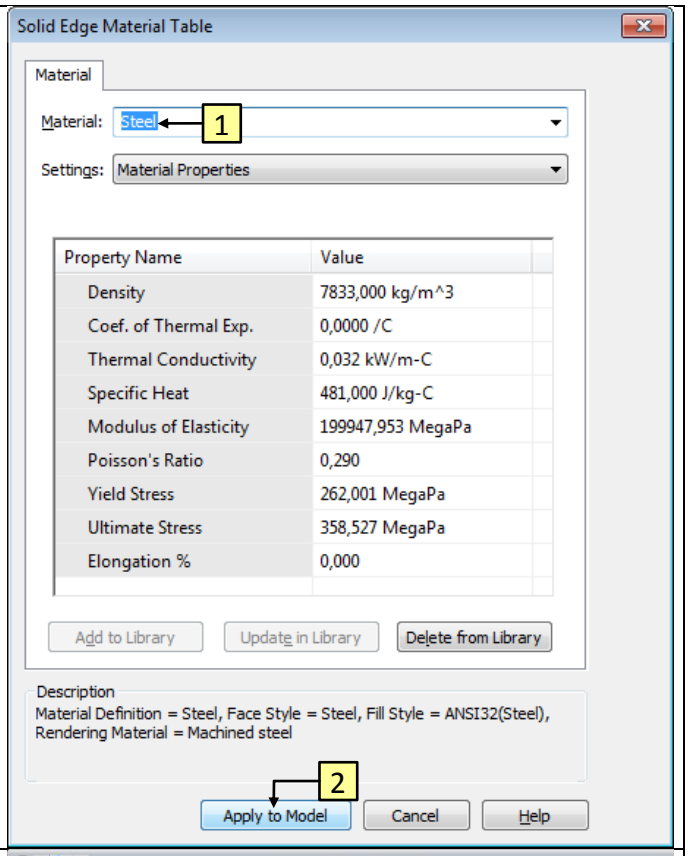
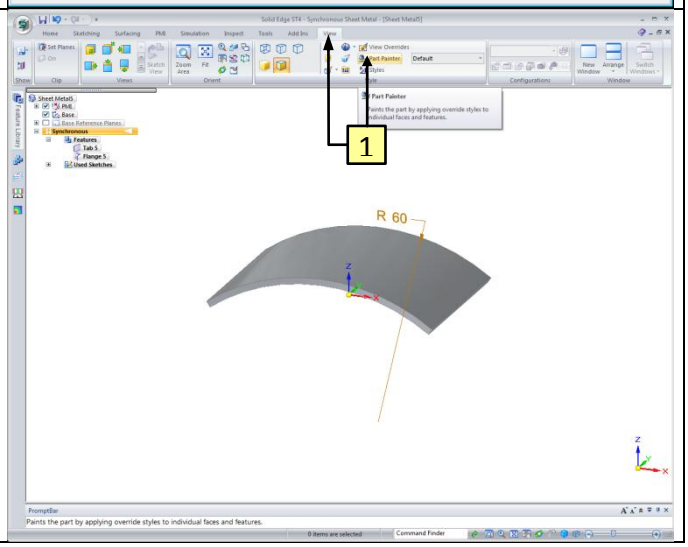
4	1. Click the **Line** button. 2. Point at the left Arc point. Wait until the icon appears before clicking. 3. Make sure the icon appears before clicking.	
5	4. Repeat step 5 to the other side of the Arc.	
6	1. Click the **Smart Dimension** button. 2. Click on the Arc. 3. Click to place the dimension. 4. Key in the value **60** and confirm with **Enter**.	

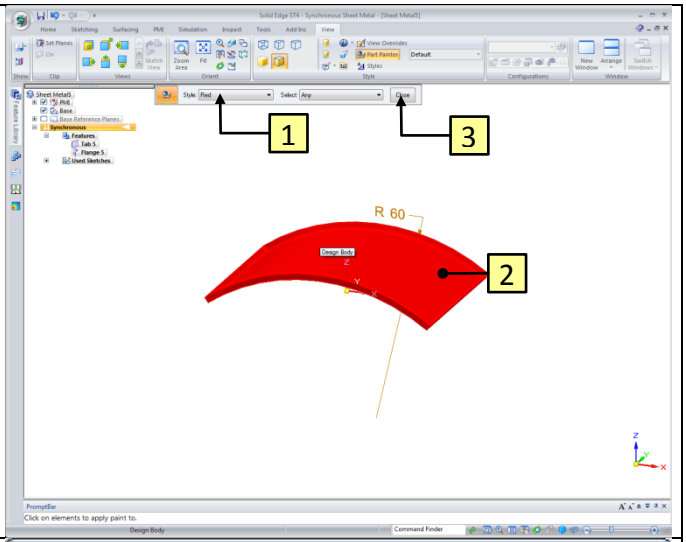
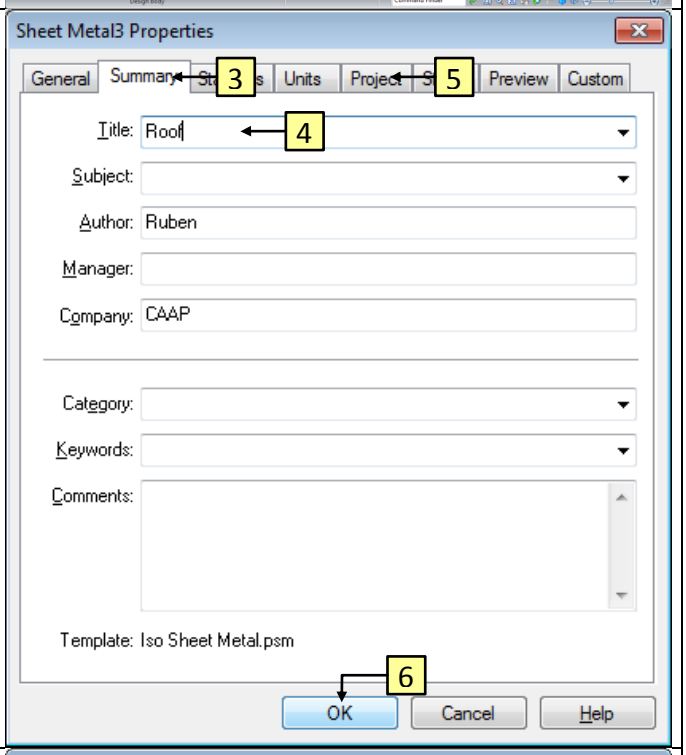
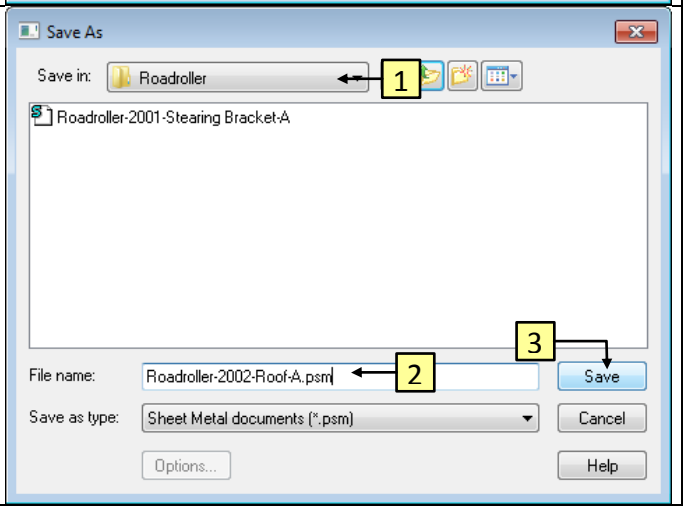
7	1. Click the **Distance Between** button. 2. Point at left Arc point. Wait until the icon appears before clicking. 3. Point at the right Arc point. Wait until the icon appears before clicking.	
8	4. Click to place the dimension. 5. Key in the value **70** and confirm with **Enter**.	
9	1. Click the **Smart Dimension** button. 2. Click the right line. 3. Click to place the dimension. 4. Key in the value **0,01** and confirm with **Enter**.	

10	5. Click the left line. 6. Click to place the dimension. 7. Key in the value **0,01** and confirm with **Enter**.	
11	1. Click the **Horizontal/Vertical** button. 2. Point at the horizontal Arc point. Wait until the icon appears before clicking. 3. Point at the **Origin** and wait until the icon appears before clicking.	
12	1. Click the **Connect** button. 2. Point at the left Arc point. Wait until the icon appears before clicking. 3. Point at the horizontal X-axis line. Wait until the icon appears before clicking.	

13 +	1. Click the **Contour Flange** button. 2. Click the **Material Table** button.	
14	3. Fill in **2** at Material Thickness. 4. Click the **Apply to Model** button.	

15	1. Make sure the **Chain** type is selected. 2. Click on the sketch. 3. When you hover over the arrow, it will turn red. Click on the arrows, as shown.	
16	1. Click the **Symmetric Extent** button. 2. Make sure the arrow is up. 3. Key in the value **50** and confirm with **Enter**.	
17	Now we set the material property. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **Material Table**.	

18	1. Choose the material **Steel**. 2. Click **Apply to Model** to set the material to the part. ***Hint:*** *There are several properties which are connected to a material, like color en density. The density is necessary to determine the weight.*	
19	Now we can paint the part. 1. Click on **View → Part Painter**.	

20	1. Select the style **Red**. 2. Click on the part. 3. Click the **Close** button. ***Hint:*** *If you don't get the follow message at step 21, please set the default settings again.*	
21	The part is ready. Now it must be saved. 1. First press **Ctrl** and **i** to turn the image to isometric view. 2. Click on the floppy icon. 3. Go to the **Summary** tab**.** 4. Type *Roof* at Title. 5. Go to the **Project** tab and fill in the following properties: Document Number*: 2002*. Revision Number*: A*. Project Name: *Roadroller*. 6. Click **OK** to close the screen. ***Hint:*** *All properties of the part are saved at the **File Properties**. These properties will be used by making a drawing or part list.*	
22	1. Browse to the folder *Roadroller*. 2. Save the document by name *Roadroller-2002-Roof-A.psm*. 3. Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*